



2007 CENSUS OF AGRICULTURE

2009 On-Farm Energy Production

Oklahoma State Profile

Published February 2011

BACKGROUND

The *2009 On-Farm Renewable Energy Production Survey* (OREPS) is a follow-on survey to the *2007 Census of Agriculture*. It is the first on-farm renewable energy production survey conducted on the national level by the U.S. Department of Agriculture (USDA), National Agricultural Statistics Service (NASS).

The *2009 OREPS* provides information on energy produced by wind turbines, solar panels, and methane digesters that were in operation on farms in 2009. Wind turbines located on farm operations under a wind rights lease agreement are considered commercial and were excluded from this survey. Methane digesters not owned and operated by the farm operation were not included in the survey.

U.S. Department
of Agriculture

National Agricultural
Statistics Service

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PHOTOVOLTAIC (PV) AND THERMAL SOLAR PANELS

Oklahoma ranked 4th in the region for number of farms with solar and thermal panels. There were 7,968 farms using solar panels to generate energy in the United States. The number of farms using solar panels ranged from four farms in Delaware to 1,906 farms in California.

State	Number of Farms	PV Solar Panels	Thermal Solar Panels
Arkansas	41	37	5
Colorado	504	445	117
Kansas	116	93	36
Missouri	93	84	22
New Mexico	258	241	38
Oklahoma	187	167	37
Texas	573	541	67
United States	7,968	7,236	1,835

SMALL WIND TURBINES

Oklahoma ranked 5th in the region for number of farms with small wind turbines. There were 1,406 U.S. operations reporting 1,831 small wind turbines that were owned and operated by farmers and ranchers.

State	Number of Farms	Number of Turbines	Average per Turbine	
			Rated Generating Capacity (Kilowatts)	Installation Cost (Dollars)
Arkansas	7	11	2	5,800
Colorado	98	147	3	4,581
Kansas	18	20	6	10,084
Missouri	21	28	3	7,779
New Mexico	28	34	1	4,807
Oklahoma	20	22	2	4,156
Texas	102	148	4	8,493
United States	1,406	1,831	6	12,972

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ENERGY SAVINGS, ENERGY AUDITS, AND/OR FEDERAL FUNDING

Oklahoma ranked 4th in the region for number of reported farms that used some type of energy source, but ranked 5th in the region for average dollars saved on utility bills.

State	Number of Farms ¹	Average Dollars Saved on 2009 Utility Bills per Farm	Performed Energy Audit (Farms)	Received Federal Funding (Farms)
Arkansas	42	\$1,070	2	2
Colorado	518	\$1,415	14	48
Kansas	125	\$689	-	11
Missouri	102	\$547	3	12
New Mexico	260	\$2,080	1	35
Oklahoma	200	\$1,037	2	28
Texas	624	\$1,198	14	32
United States	8,569	\$2,406	613	1,101

¹ Reporting Wind Turbines, Digesters, and/or Solar Panels

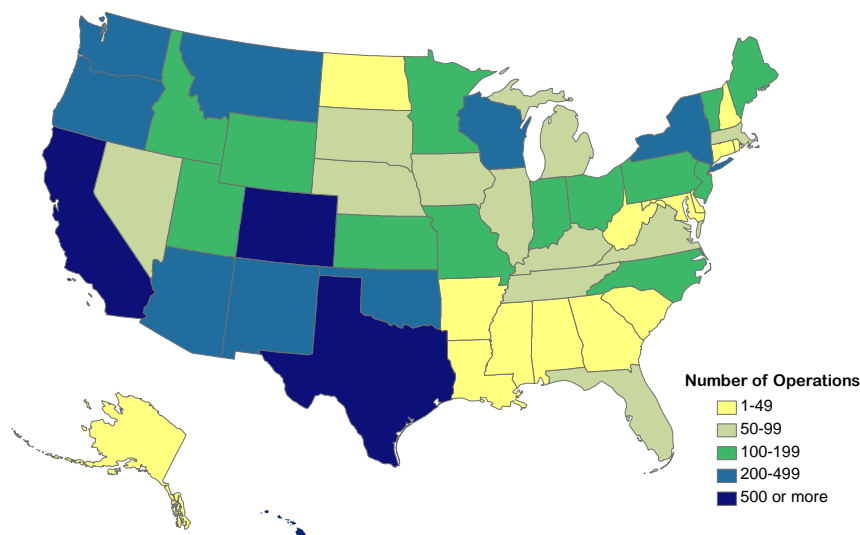
"Your operation, large or small, represents Oklahoma agriculture. We appreciate your assistance in providing timely and accurate data. Thank you for your support."

~Wilbert C. Hundl, Jr., Director

USDA-NASS Oklahoma Field Office



FARMS PRODUCING RENEWABLE ENERGY: 2009 (UNITED STATES TOTAL = 8,569 FARMS)



USES OF SURVEY DATA

The production of on-farm renewable energy can provide cost saving alternatives for America's farmers and ranchers. The information gathered will help in the continued development of this expanding agricultural industry.

www.nass.usda.gov

www.agcensus.usda.gov

**Agricultural Statistics
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